

KOLOSNIKOV, G. N.

Plastic Deformation of Aluminum Monocrystals in the first Moment after
the Application of Load.

Leningrad Physico-Technical Institute, 1946.

So: U-1837, 14 April 52.

10.2000 A

69502

AUTHORS:

Kiselev, M. I., Kolosnitayn, N. I.S/020/60/131/04/016/073
B013/B007

TITLE:

Calculation of Inclined Shock Waves in Magnetic Gas Dynamics

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 4, pp 773-775 (USSR)

TEXT: The tangential component of the magnetic field behind the front of an inclined shock wave can be calculated from the cubic equation (1):

$$h_{2y}^3 + h_{1y} \left[1 - (2-k) \left(1 - \frac{u_{1x}^2}{v_{1x}^2} \right) \right] h_{2y}^2 + q_1 \left(1 - \frac{u_{1x}^2}{v_{1x}^2} \right) (v_{1x}^2 - a_{1Mx}^2) (k+1) h_{2y} -$$

$$- (k+1) v_{1x}^2 h_{1y} q_1 \left(1 - \frac{u_{1x}^2}{v_{1x}^2} \right) = 0 . \text{ The intensity of the compression shock is}$$

determined by the Mach number $M_{\text{Mach}} = u_x/v_x$ and by the parameter $v_x^2 - a_{\text{Mach}}^2$. The amount of the velocity component u_{1y} which is parallel to the front has no influence on the compression shock of the field. By means of linear and broken, linear substitutions it is possible to obtain cubic equations from equation (1),

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Calculation of Inclined Shock Waves in Magnetic Gas Dynamics S/020/60/131/04/016/073
B013/B007

which are used to determine the velocities u_{2x} , u_{2y} and the density ρ_2 . The accelerated shock waves are described by that branch of the roots of these cubic equations which has a positive real part. These shock waves pass over into the inclined shock waves of non-magnetic gas dynamics if the field strength tends to zero. The delayed shock waves (which vanish in perpendicular fields) are described by the branch of roots having a negative real part. With $M_{\text{Mach}} = 1$ the afore-mentioned equation (1) is solved by the rotational discontinuity $h_{2y} = -h_{1y}$. Figure 1 shows u_{2y} as a function of u_{2x} . The energy of the magnetic field is higher than or equal to the internal and kinetic energy of the gas. Whereas the field strength behind the front varies in a monotone manner, the dependence of u_{2y} on u_{2x} has the character of a hump the peak of which corresponds to a certain "resonant slope" of the magnetic field. In solving the problem of a piston, the collisions between the inclined shock waves and their reflections from the wall are the most interesting kinds of behavior in the neighborhood of the "resonant slope" of field strength. These considerations also permit an explanation of the prominences in the neighborhood of sunspots. By means of the results obtained here it is also possible to

Card 2/3

KOLOSNITSYN, N.I.

Some evaluations of a pulse plasma accelerator. Vest.
Mosk. un.Ser.3:Fiz,asttron. 17 no.4:18-23 Jl-Ag '62. (MIRA 15:9)

1. Kafedra statisticheskoy fiziki i mekhaniki Moskovskogo
universiteta.

(Plasma (Ionized gases))
(Magnetic fields)

L 06562-67	EWP(m)/EWT(1)	IJP(c)
ACC NR:	AP6029777	SOURCE CODE; UR/0294/66/004/004/0524/0530
AUTHOR:	Kolosnitsyn, N. I.	
ORG:	All-Union Institute of Electromechanics (Vsesoyuznyy institut elektromekhniki)	
TITLE:	Theory of magnetogasdynamic flows	
SOURCE:	Teplofizika vysokikh temperatur, v. 4, no. 4, 1966, 524-530	
TOPIC TAGS:	magnetogasdynamics, MHD flow, conductive fluid, plasma physics	
ABSTRACT: The author simplifies the method proposed by Stanyukovich and Kiselev (Stanyukovich, K. P., Kiselev, M. I., "Collection of Works of the Conference on New Technology", Moscow, 1964, p. 276) for integration of a system of magnetogasdynamic equations in the quasilinear approximation with regard to finite conductivity and induced magnetic fields. One-dimensional flow of a conductive fluid is considered assuming a given rate of flow, and given magnetic and electric field intensities. It is assumed that the conductive gas is ideal and that the conductivity is a function of thermodynamic parameters. Viscosity and thermal conductivity are disregarded. The limitations of the method proposed by Stanyukovich and Kiselev are established and the first quadratures are found for constant-density, quasifrozen, constant-velocity, iso-thermal, isobaric and polytropic flows as well as for flow at a constant Mach number and in a channel with a constant cross section. Flow with a constant Mach number is of		
Card 1/2	UDC: 538.4	

Card 2/2

MISHKEVICH, Grigoriy Iosifovich; KOLOSNITSYN, V., red.

[King in a steel crown] Korol' v stal'noi korone. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo, 1963. 151 p.
(MIRA 17:6)

GOLOVKO, Viktor Kazimirovich, inzh.-gidrograf; ARKHIPOVA, N.P.,
kand. geogr. nauk, retsenzent; STEPANOV, M.N., kand.
geogr. nauk; KOLOSNITSYN, V., red.

[Lakes of our territory] Ozera nashego kraia. Sverdlovsk,
Sverdlovskoe knizhnoe izd-vo, 1963. 134 p.
(MIRA 17:7)

MOSHKIN, A.M., dotsent; BYSTROV, S.G., zhurnalist; ADAMOV, V.V.,
dotsent, kand. istor. nauk, retsenzent; KOLOSNITSYN, V.,
red.; PAL'MINA, N., tekhn. red.

[Alapayevsk] Alapaevsk. Sverdlovsk, Sverdlovskoe knizhnoe
izd-vo, 1961. 125 p. (MIRA 15:4)

1. Sverdlovskiy pedagogicheskiy institut (for Moshkin). 2. Ural'-
skiy gosudarstvennyy universitet (for Adamov).
(Alapayevsk--Economic conditions) (Alpayevsk--History)

NIKITIN, P.; RUBBTSOV, N.; KOLOSNITSYN, V., red.

[The city of mineral fibers; outline history of Asbest]
Gorod gornogo l'na; ocherki po istorii Asbesta. Sverdlovsk,
Sverdlovskoe knizhnoe izd-vo, 1963. 217 p. (MIRA 17:4)

MALAKHOV, Anatoliy Alekseyevich, prof., doktor geologo-miner.
nauk; KOLOSNITSIN, V., red.; SAKNIN', Yu., tekhn. red.

[Stories about rocks] Novelly o kamne. Sverdlovsk, Sverdlov-
skoe knizhnoe izd-vo, 1960. 210 p. (MIRA 15:8)

1. Sverdlovskiy gornyy institut (for Malakhov).
(Ural Mountains—Rocks)

KOSHKIN, P.P., krayeved; SHUVALOV, Ye.L., dotsent; KOLOSHITSYN, V.,
red.; PAL'MINA, N., tekhn. red.

Kamyshlov. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo, 1961. 134 p.
(Mira 15:8)
(Kamyshlov)

GOLOVKO, Viktor Kazimirovich; KOLOSNITSYN, V., red.; CHERNIKHOV, Ya.,
tekhn. red.

[Along the banks of the Ural rivers] Vdol' beregov ural'skikh
redk. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo, 1961. 129 p.
(MIRA 15:8)
(Sverdlovsk Province--Rivers)

GORLANOV, M.G., prepodavat.; POKAZAN'YEV, Aleksandr; ADAMOV, V.V., kand. ist. nauk, rotsenzont; KULAGINA, G.A., kand. ist. nauk, retsènzent; BOROZDIN, Ye.A., red.; ZAVAROV, S.I., red.; POPOV, N.Ye., red.; ROGOZHIN, V.N., red.; SILENSKIKH, T.N., red.; TARIKO, A.N., red.; KOLOSNITSYN, V., redaktor; MAKSIMOVA, E., tekhn. red.

[Revda stories; from the history of the Revda Hardware Manufacturing and Metallurgical Plant] Revdinskie vli; iz istorii Revdinskogo metiznometallurgicheskogo zavoda. Sverdlovsk, Sverdlovskoe knizhnoe izd.-vo, 1960. 154 p. (MIRA 15:8)

1. Sekretar' Revdinskogo gorodskogo komiteta Kommunisticheskoy partiï Sovetskogo Soyuza (for Silenskikh).
(Revda-Metallurgical plants)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9

SHUKSTOVA, Zinaida; KOLOSNTSIN, V., red.; CHERNIKHOV, Ya., tekhn. red.

[Starry heavens]Zvezdnoe nebo. Sverdlovsk, Sverdlovskoe knizhnoe
izd-vo, 1962. 185 p. (MIRA 16:4)
(Astronomy)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9"

CHERNOUSOV, Yakov Mikhaylovich, prof.; doktor geol.-miner. nauk;
MALAKHOV, A.A., prof., doktor geol.-miner. nauk, retsenzent;
KOLOSNITSYN, V., red.; GOLOBOKOVA, L., tekhn. red.

[Academician A.P.Karpinskii] Akademik A.P.Karpinskii. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo, 1962. 105 p.
(Karpinskii, Aleksandr Petrovich, 1846-1936) ^(MIRA 16:7)

KOLOSNITSYNA, G.R.; MARTYNNOVA, O.M.

New Jurassic Ijapsyche (Mecoptera, Paratrichoptera) genus from
Eastern Siberia. Paleont.zhur. no.4:162-164 '61. (MIRA 15:3)

1. Irkutskoye geologicheskoye upravleniye i Paleontologicheskiy
institut AN SSSR.
(Siberia, Eastern--Mecoptera)

"APPROVED FOR RELEASE: 09/18/2001

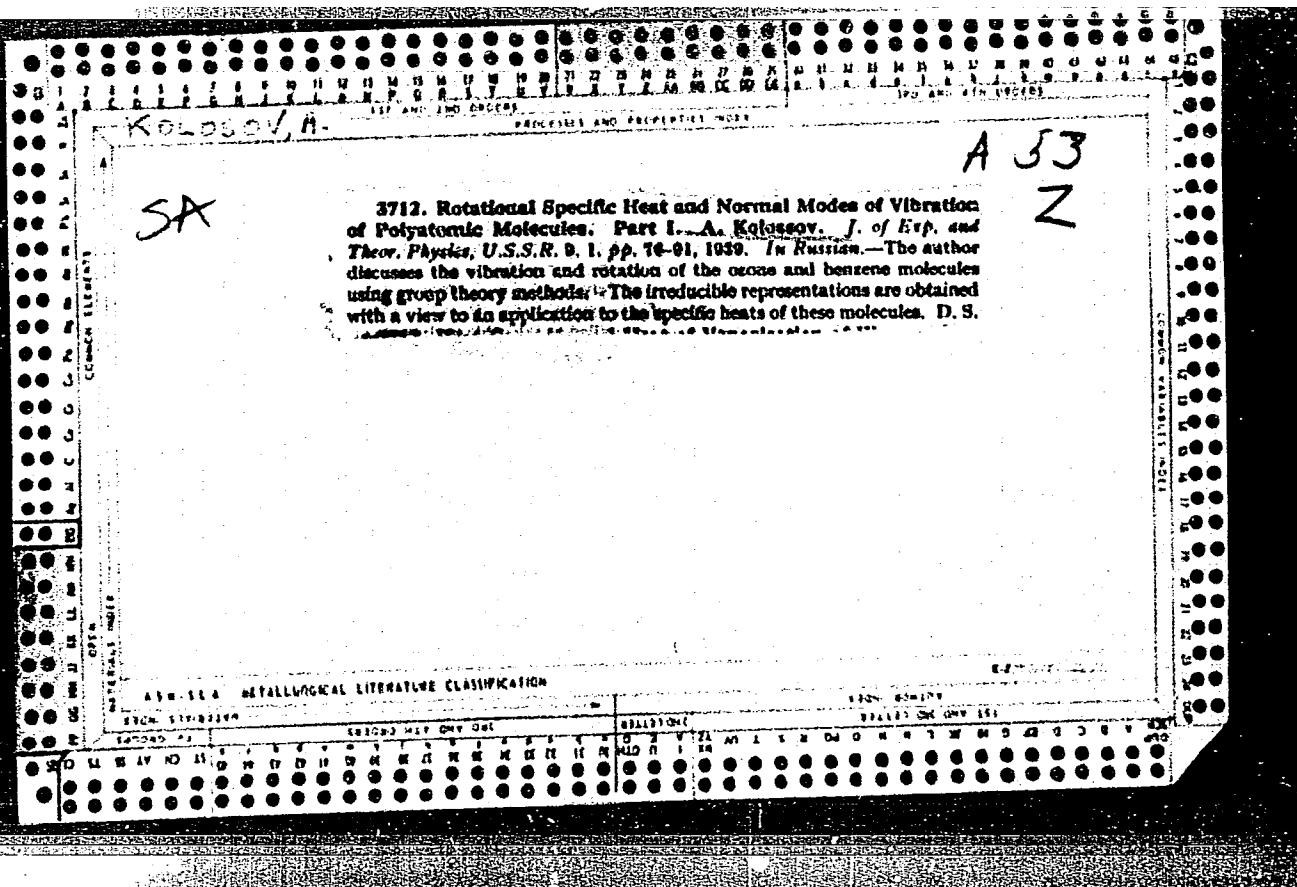
CIA-RDP86-00513R000823920017-9

KOLOSNITSYNA, G.R.

New remains of Jurassic insects in the Irkutsk Basin. Trudy Lim.
inst. 4:144-150 '64. (MIRA 17:11)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9"



"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9

БЮЛЛЕТЕНЬ

ДУБРОВСКИЙ, Я., инженер; ХОЛОСОВ, А., инженер.

Cutter-loaders in foreign countries. Mast.ugl. 6 no.6:28-31
Je '57. (MIRA 10:8)
(Mining machinery)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9"

1. KOLOSOV, A.
2. USSR (600)
4. Irrigation
7. Transformed earth.
Smena, 29 No.22, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

KOLASOV, A.

Quality of household electric vacuum cleaners. Tekh. iss.
no.4:14-16 Ap '65. (MTRA 18#6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tekhnicheskoy
estetiki.

KOLOSOV, A.

Reproduction of capital assets in industry ("Capital assets of
socialist industry" by P. G. Bunich. Reviewed by A. Kolosov)
Vop. ekno. no.4:112-116 Ap '61. (MIRA 14:3)
(Capital)
(Bunich, P.G.)

S/284/63/000/003/004/004
A004/A126

AUTHOR: Kolosov, A.

TITLE: Reserves for increasing the production capacities in mechanical engineering

PERIODICAL: Referativnyy zhurnal, 35. Voprosy tekhnicheskogo progressa i organizatsii proizvodstva v mashinostroyenii, no. 3, 1963, 9, abstract 3.35.46 (Plan. kh-vo, 1962, no. 9, 3 - 12)

TEXT: An examination of 42 mechanical engineering plants of RSFSR in March and April 1961 revealed that, during the first shift, 17.6% of machine tools and 24.1% of forging and pressing equipment were not fully utilized, while 25.7% of machine tools and 32.3% of the forging and pressing equipment did not operate over the whole shift. During the second shift, more than 30% of the machines remained inactive, even at plants where the production equipment was highly charged. On the whole, the production equipment was being operated only 60 - 70% of the production time, which corresponds to an operating time of each machine tool of 4 - 5 hours during one shift. It is expedient to organize a full-value two-shift

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S/284/63/000/003/004/004

Reserves for increasing the production capacities in... A004/A126

work, without night shifts, which would result in a considerable increase in production of the mechanical engineering industry. Measures are being taken at a number of Leningrad Plants to bring the shift utilization of the main equipment to 1.6 - 2. The second shifts are manned with operators obtained mainly by reducing the number of workers employed with auxiliary and fitter and assembly operations. The production capacity of these plants could be increased by 25%, while expenditure was rather low. The most important expenditure was necessary for the construction of foundry shops and metal structure shops, and also for extending the capacities of cooperating plants supplying accessories and semi-finished products. Calculations reveal that an increase in shift utilization from 1.7 to 1.96 at 14 plants of the Gor'kiy Sovnarkhoz will yield an increase of the gross output by 28.2 mill. rubles for 1962 - 1964 at a capital investment of 3.4 mill. rubles. There is a certain disproportion between the assembly shops and the blank production shops. From 1958 to 1960 the output of all mechanical engineering production increased by 25%, while the rise in the production of blanks amounted to 19% of steel castings, 16% of cast-iron castings and 15% of forged items. Moreover, the existing production capacities of initial-product shops are utilized only insufficiently owing to the small production batches. The author

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Reserves for increasing the production capacities in...

S/284/63/000/003/004/004
A004/A126

points out the necessity of a higher specialization of foundries and forging and pressing shops. There is 1 table.

N. Prikhod'ko

[Abstracter's note: Complete translation]

Card 3/3

KOLOSOV, A.; UTKIN, E.

Credit aids the increase of industrial productive capacity.
Den. i kred. 20 no.12:17-22 D '62. (MIRA 16:1)

(Machinery industry--Finance)

KOLOSOV, Aleksay Aleksandrovich; SIDOROV, L.A., redaktor; KAPUSTINA,
V.S., redaktor; PETROVA, M., tekhnicheskij redaktor.

[Work in mathematics outside of class of the upper grades]
Vneklassnaia rabota po matematike v starshikh klassakh.
Moskva, Gos.uchebno-pedagog. izd-vo Ministerstva prosveshchenija
RSFSR, 1955. 63 p. (MLRA 9:1)
(Mathematics--Problems, exercises, etc.)

KOLOSOV, Aleksey Aleksandrovich; SIDOROVA, L.A., red.; KREYS, I.G.,
tekhn.red.

[A book for extracurricular reading on mathematics for ninth
grade students] Kniga dlja vneklassnogo chtenija po mate-
matike dlja uchashchikhsia IX klasse. Moskva, Gos.uchebno-
pedagog.izd-vo M-vs prosv.RSSSR, 1960. 231 p. (MIRA 13:5)
(Mathematics--Study and teaching)

BODE, Hendrik W.; KOLOSOV, A.A., [translator], redaktor; MEYEROVICH, L.A.,
[translator], redaktor; KARASOV, M.D., redaktor; GESSEN, L.V.,
redaktor; KORNILOV, B.I., tekhnicheskiy redaktor.

[Network analysis and feedback amplifier design] Teoriia tsepei i
proektirovaniye usiliteli s obratnoi sviaz'iu. Perevod s angliiskogo
i red. A.A.Kolosova i L.A. Meerovicha. Moskva, Gos. izd-vo inostrannoi
lit-ry, 1948. 641 p. (MLIA 8:5)
(Radio circuits) (Amplifiers, Electron-tube) (Telephone lines)

KOLOSOV, A. A.

PA 33/49104

USSR/Radio
Radio Receiver
Amplifiers

Oct 48

"Noise Bands of Multistage Resonance Amplifiers,"
A. A. Kolosov, 4 pp

"Dok Ak Nauk SSSR" Vol LXII, No 4

Gives mathematical method of calculating the noise band for any number of stages. Sets up a table showing proportion of noise band to reception band. Concludes that the noise band of single-circuit amplifier with a large number of stages exceeds its reception band only by a few percent

33/49104

USSR/Radio
(Contd)

Oct 48

In the case where the degree of irregularity in the limits of the reception band is taken equal to the square root of 2 (3 decibels). Submitted by Acaš B. A. Vvedenskiy, 20 Jul 48.

33/49104

KOLOSOV, A. A.

Author: Kolosov, A. A.

Title: The resonant systems and resonant amplifiers. (Rezonansnye sistemy i rezonansnye usiliteli.) 560 p.

City: Moscow

Publisher: State Printing House of Literature pertaining to the problems connected with communication and radio technique.

Date: 1949

Available: Library of Congress

Source: Monthly List of Russian Acquisitions, Vol. 3, No. 4, P. 239

Call No: TK7872.A5K6

Subject: 1. Amplifiers, vacuum-tubes. 2. Electronics.

KOLOSOV, A. A.

KOLOSOV, A. A.

Kolosov, A. A. defended his Doctor's dissertation in the Moscow Electrical Engineering Institute of Communications, USSR, on 29 June 1950, for the academic degree of Doctor of Technical Sciences.

Dissertation: "Resonance Systems and Resonance Amplifiers". Resume: Kolosov examined the problem of the maximum-frequency band which can be obtained at a given degree of amplification in different types of tune amplifiers. He proved that for any type there is a maximum band for any given degree of amplification, as well as a maximum degree of amplification for a given band which cannot be exceeded, no matter how many stages are used. For maximum amplification there is an optimum number of stages. Kolosov examined the question of selecting parameters for multistage amplifiers, starting from stability of the band width and the magnitude of amplification at the initial tuning frequency. He established a value for acceptable deviation of capacitances from their average value. He determined analytically the noise band of a multistage amplifier. Kolosov presented for the first time appropriate formulas to replace inconvenient graphical constructions. He investigated amplifier stability from the point of view of feedback, as well as the problem of minimum amplifier noise factor.

Official Opponents: Profs. Yu. B. Kobzarev, N. N. Krylov, and N. N. I. Chistyakov (Doctors of Technical Sciences).

SO: Elektrичество, No. 7, Moscow, August 1953, pp 87-92 (W/29844, 16 Apr. 54)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9

The best estimate of the absolute width of the atmospheric layer is 10 km. This is based on the fact that the width of the atmospheric layer is proportional to the height of the troposphere, which is 10 km.

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9"

AUTHORS:

Kolosov, A.A., Maslennikov, L.N.,
Myasnikov, L.L.

54-10-2-4/16

TITLE:

The Stabilization of the Frequency of the Quartz Generator by
Means of a Spectral Line (3,3) N¹⁴H₃ [Stabilizatsiya chastoty
kvartsevogo generatora posredstvom spektral'noy linii (3,3)N¹⁴H₃]

PERIODICAL:

Vestnik Leningradskogo Universiteta, Seriya fiziki i
khimii, /3 , 1958, Vol. 10 Nr 2 , pp. 38-42 (USSR)

ABSTRACT:

In the present paper the method worked out by the authors for the stabilization of the frequency of a quartz generator by means of the microwave of absorption in gaseous ammonia is described. In order to stabilize the quartz generator the microabsorption line N¹⁴H₃ (3-3) at a pressure of 10⁻² mm mercury column was chosen. The application of gaseous ammonia is justified by the fact that the line (3-3) is well known and is easily accessible within the radiofrequency range. Besides, it is of high intensity and can therefore easily be observed in the small absorbing gas cells. Thanks to the exterior fields, the displacement of the spectral line is quite insignificant at normal conditions, and the insta-

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The Stabilization of the Frequency of the Quartz
Generator by Means of a Spectral Line (3,3) N¹⁴H₃

54-10-2-4/16

bility of the order of 10^{-10} caused by it can be disregarded. Modern methods make it possible to obtain great stability of the shape of the line. For the purpose of stabilization a scheme of the automatic adjustment of the frequency of the quartz generator was used (fig. 1). The following factors influence the operational stability of the scheme: 1.) Stability of the shape of the line. 2.) Stability of the amplification coefficients of the amplifiers. 3.) Starting stability of the multivibrators. 4.) Modification of the shape of the modulating signal. 5.) Modification of the feed voltage. The stability of the shape of the line depends on the pressure in the gas cell (table 1). As already mentioned, the stability of the amplification coefficients of the amplifiers influences the operation of the scheme. If anode feed is modified by 10% a shift of 1 microsecond occurs, which corresponds to a deterioration of relative instability of up to $3 \cdot 10^{-7}$. The change of the shape of the line also manifests itself in the accuracy of operation of the system. If the frequency of the absorption line is more towards the end of the sinusoid, the line will change with respect to time. It was found by calculation that the most favorable point of operation is near the turning point of the sinusoid and that the permitted displacement is within the limits

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The Stabilization of the Frequency of the Quartz
Generator by Means of a Spectral Line (3,3) N¹⁴H₃

54-10-2-4/16

of + 5°. In practice possible displacement was found to be greater, and deviations from the order ± 30° are permitted. This may be explained by the fact that the modulating signal slightly differs from the sinusoid and has a longer linear part. In the case of a linear displacement by more than the half distance from the center, the recordings of the phase detector are modified by 0.2 V. There are 8 figures, and 1 table.

SUBMITTED: December 24, 1957

AVAILABLE: Library of Congress

1. Quartz generators—Frequency—Stabilization 2. Quartz crystals
—Applications

Card 3/3

KOLOSOV, Andrey Aleksandrovich; GORBUNOV, Yuriy Ivanovich; NAUMOV,
Yuriy Yevgen'yevich; LUKIN, F.V., doktor tekhn. nauk,
retsenzent; MOZHZHEVELOV, B.N., kand. tekhn. nauk,
retsenzent; ARENBERG, N.Ya., red.

[Solid-state semiconductor networks] Poluprovodnikovye tver-
dye skhemy. Moskva, Sveteskoe radio, 1965. 503 p.
(MIRA 18:3)

ACC NR: AM5012954

Monograph

UR/

Kolosov, Andrey Aleksandrovich (Professor); Gorbunov, Yuriy Ivanovich;
Naumov, Yuryi Evgen'yevich

Semiconductor solid-state circuits (Poluprovodnikovyye tverdyye skhemy) Moscow, Izd-vo "Sovetskoye radio," 1965. 0503 p. illus., biblio. Errata slip inserted. 13,600 copies printed

TOPIC TAGS: solid state physics, semiconductor theory, semiconducting material, PN junction, integrated circuit, circuit design, electronic engineering, solid state, solid state device

PURPOSE AND COVERAGE: This book presents systematized data on solid state circuits based on semiconductors. The text describes the electronic principles of solids, the physical processes taking place in semiconductor materials, the application of these processes in designing integrated and functional solid state circuits, and the technology of constructing such circuits. The book is intended for engineers working in the field of radio electronics and electronic engineering, as well as for students at radio engineering institutes. The material used in chapters XIV and XVIII was prepared with the aid of V.N.Kononov and N.A.Avayev. The authors thank F.V.Lukin, Dr. of Technical Sciences, and B.N.Mozzelyov, Candidate of Technical Sciences, for their valuable comments on the manuscript.

Card 1/3

UDC: 621.382.8

ACC NR: AM5012954

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9"

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Card 2/3

RYSKIN, M.Ya.; TSVETKOV, I.T.; MITROFANOV, S.I., prof., rukovoditel' raboty;
Prinimali uchastiye: BAKHTEYEV, N.Ye.; KOLOSOV, A.A.; SMOLYUK, L.P.

Combined filtration of fluxes and copper concentrate. TSvet. met. 36
no.12:76 D '63. (MIRA 17:2)

KOLOSOV, A.A.

BUL'BA, V. S.; KOLOSOV, A. A.

"DKN-1" lamp appliance for diathermocoagulation in neuro-
and general surgery. Khirurgiia, Moskva no.7:76-80 July 1951.
(CLML 21:1)

1. Engineers. 2. Of the Department of Electromedical
Apparatuses(Head -- Engineer V. S. Bul'ba), Scientific-
Research Institute of Instruments and Equipment (Director
I. A. Antonov).

KOLOSOV, A. A.

LIVENTSEV, Nikolay Mitrofanovich, doktor meditsinskikh nauk, kandidat
tekhnicheskikh nauk; KOLOSOV, A.A., redaktor; POPHYADUKHIN, K.A.
tekhnicheskiy redaktor.

[Electrical medical (physiotherapeutic) equipment; installation,
operation and maintenance] Elektromeditsinskaia (fizioterapevti-
cheskaia) apparatura (ustroistvo, ekspluatatsiya i remont);
rukovodstvo dlia fiziotekhnikov. Moskva, Gos.izd-vo meditsinskoi
lit-ry, 1955. 325 p. (MLRA 8:10)

(ELECTROTHERAPEUTICS--APPRATUS AND INSTRUMENTS)

KOLOSOV, A.A.

LIVENSON, A.R.; KOLOSOV, A.A.

Apparatus for ultrahigh - frequency impulse therapy. Med.prom. 11
no.8:49-52 Ag '57. (MIRA 10:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya.
(DIATHERMY)
(ELECTRIC APPARATUS AND APPLIANCES)

AUTHORS: Livenson, A., Kolosov, A. SOV/107-58-10-25/55

TITLE: Electronic Medical Apparatus (Elektronnaya meditsinskaya apparatura)

PERIODICAL: Radio, 1958, Nr 10, pp 23-26 (USSR)

ABSTRACT: The author describes the chief groups of electronic apparatus used in medical practice; they are as follows: 1) electronic apparatus for functional diagnosis. This includes electrocardiography, vectorelectrocardiography, phonocardiography, measurement of the frequency of the pulse, electroencephalography and gastrography; 2) low-frequency pulse apparatus. Low-frequency pulse currents are widely used in diagnostic and therapeutic practice; for example, in order to cure complaints connected with a disease of the neuro-muscular system it is necessary to establish the character, degree and location of the disease. For this purpose diagnostic methods are used based on the ability of tissue to be excited by the passage of an electric current through it; the reactions of the tissue to the electrical irritation (in this case a direct current, single pulses of varying duration, and periodically a pulse current of varying duration and frequency) can be studied. Low frequency pulse currents are also used for

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therapeutical purposes, such as electrical stimulation of the muscles, artificial respiration, etc; 3) high-frequency physiotherapeutic apparatus. Some forms of h-f therapy are classified according to the frequency of the h-f generators used, for example diathermy, inductotherapy, uhf therapy and microwave therapy. The author adds that for warming up muscular tissue when using uhf therapy, a new electrode has been suggested, taking the form of an oscillatory circuit separate from the apparatus itself. With this method use is made of the magnetic field of the coil of the circuit, which generates the greatest amount of heat in the muscular tissue due to the eddy currents formed in it. In this manner the doctor can localize the effect of the h-f energy by choosing one or another electrode. The author also mentions that pieces of equipment used for contact diathermy are usually universal as regards impulse, and are also used in electro-surgery for the cutting and coagulation of tissue. In such cases the equipment is provided with special electrodes. The frequencies allotted by the Ministry of Communications for h-f physiotherapy are given: they are 1,625, 13.56, 39, 152, and 2375 mc; 4) supersonic apparatus. A brief description of the principles of the therapeutic use of ultra-

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sound is given, in particular its use in stomatology and diagnosis, as follows. When the supersonic method of drilling teeth is employed, with a cutting point of 1.5 x 1.5 mm and an oscillating frequency of 20 kc, the number of strokes of the cutting elements reaches 9,000,000 at a speed of 0.03 m per min. In diagnosis use is made of the reflection or absorption of the supersonic waves depending on the density, elasticity and uniformity of the tissues.

There are 4 photographs.

ASSOCIATION: Laboratoriya elektronnykh meditsinskikh priborov i apparatov VNII MII0 (Laboratory of Electronic Medical Instruments and Apparatus of the VNII MII0)

Card 3/3

KOLOSOV, A.A.; LIVENSON, A.R.

Use of ultrasonics in stomatology. Med. prem. 13 no.5:15-23 My '59.
(MIRA 12:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya.
(ULTRASONIC WAVES--THERAPEUTIC USE)
(DENTAL INSTRUMENTS AND APPARATUS)

KOLOSOV, A.A.

Use of ultrasonics in stomatology. Med.prom. 16 no.6:30-33 J1
'62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh
instrumentov i oborudovaniya.
(ULTASONIC WAVES—THERAPEUTIC USE)
(DENTAL INSTRUMENTS AND APPARATUS)

KOLOSOV, A.A.; DEMIDOV, G.Ye.; KUZNETSOV, A.P.

Apparatus for removing dental calculus by means of ultrasonics.
Med. prom. 17 no.9:53-58 S'63. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh
instrumentov i oborudovaniya.

KOLOSOV, A.A.; YEGOROVA, D.V.; DEMIDOV, G.Ye.

Portable apparatus for ultra-high frequency therapy. Med. prom.
17 no. 6:54-59 Je'63 (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh
instrumentov i oborudovaniya.

KOLOSOV, A.A.

Application of ultrasonics in stomatology. Nov. med. tekhn.
no.2:75-77 '62. (MIRA 17:11)

1. Vsesoyuznyy nauchnyy-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya.

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CIA-RDP86-00513R000823920017-9

KOLASOV, A.A.; YEGOROVA, D.V.; DEMIDOV, G. Ye.

Portable apparatus for ultrahigh-frequency therapy. Trudy
VNIIM no.3:35-40 '63 (MIRA 18:2)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9"

KOLOSOV, A.A.; DEMIDOV, G. Ye.; KUZNETSOV, A.P.

Apparatus for the removal of tartar with the aid of ultrasonic waves. Trudy VNIIMIO no.3:79-86 '63 (MIRA 18:2)

KOLOSOV, A.F.

[Some problems of the production of the means of production in
industries of the U.S.S.R.; author's abstract of a dissertation]
Nekotorye voprosy vosprievodstva osnovnykh fondov v promyshlennosti SSSR; avtoreferat dissertatsii. Moskva, Mosk. fin. in-t M-va vysshego obrazovaniia SSSR, 1958. 14 p. (MIRA 14:7)
(Capital)

KOLOSOV, Aleksandr Eomich; SHISHANKOV, V.S., red.; ROTOVA, R.S., red.
izd-va; VORONINA, R.K., tekhn. red.

[Reproduction of public capital] Vospriozvodstvo obshchestven-
nogo kapitala. Moskva, Gos.izd-vo "Vysshiaia shkola," 1961. 92 p.
(MIRA 15:1)

(Capital)

KOLOSOV, Aleksandr Fomich. Prinimal uchastiye: IVANOV, Ye.A.,
nauchnyy sotr.; LEPNIKOVA, Ye., red.; KIRSANOVA, I.,
mladshiy red.; KORNILOVA, V., tekhn. red.

[Capital assets and their role in the socialist reproduction
of the means of production (using industry as an example)]
Osnovnye fondy i ikh rol' v sotsialisticheskem vosproisvod-
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(MIRA 16:7)
245 p.

1. Sektor osnovnykh fondov Gosudarstvennogo nauchno-
issledovatel'skogo ekonomicheskogo instituta Gosplana SSSR
(for Ivanov).

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KOLOKOV, A.I., kand. ekonom. nauk; BOCHAROV, V.N.

Methodology for analyzing the utilization of the capital assets
of the textile industry. Tekst. prom. 25 no.5:74-79 My '65.
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BOCHAROV, V.N.; DUDAYEVA, L.M.; YEVDOKIMOV, V.M.; KOLOSOV, A.F.;
KRASOVSKIY, V.P.; LUK'YANOV, E.B.; MUSATOVA, V.A.; NOVIKOV,
M.S.; SUKHOVANCHENKO, G.P.; TABELEV, V.V.; TOLKACHEV, A.S.;
CHERTKO, V.F.[deceased]; SHTANSKIY, V.A.; PAK, G.V., red.;
SELESNEVA, A.D., mlad. red.

[Structure of capital investments in the U.S.S.R. and the
U.S.A.; analysis and methods of comparison] Struktura kapi-
tal'nykh vlozhenii SSSR i SShA; analiz i metody sopostav-
leniya. Moskva, Ekonomika, 1965. 250 p. (MIRA 18:5)

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KLIMOV, Yu.M.; CHIKIN, V.V.; ANISIMOV, N.I.; BARSKOV, I.M.; VINOGRADOV, Yu.V.; GAVRILOV, A.N.; GAUKHMAN, L.A.; GOLOV, A.P.; GOL'DMAN, L.S.; GRIBENNIKOV, G.I.; YEFIMOV, A.N.; ZALUTSKIY, M.S.; ZAYTSIEVA, A.V.; OIYRYSH, A.I.; KAMDARITSKIY, V.S.; KAPRANOV, I.A.; KOVALEV, N.I.; KOVAL'EVSKIY, K.A.; KOLOSOV, A.F.; KRIKOV, A.S.; KRYLOV, R.M.; LEVITAS, A.G.; MALYGIN, M.A.; MORALEVICH, Yu.A.; MOTILEV, A.S.; NESTEROV, M.V.; NIKOL'SKIY, A.V.; ORLOV, G.M.; ORLOV, Ya.L.; PARENISKIY, V.M.; POLYAKOV, A.S.; RUBIN, V.I.; SVANIDZE, K.N.; STRIGIN, I.A.; TAKOYEV, K.F.; THUBNIKOV, S.V.; CHERNYSHEVA, L.N.; CHESNOKOV, N.Ye.; SHAMBERG, V.M.; STHUMILIN, S.G., akademik, red.; ANTOSHENKOVA, L., red.; MIKAEL'IAN, E., red.; MUKHIN, Yu., tekhn.red.

[Dictionary of the seven-year plan from A to Z] Slovar' semiletki
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(MIRA 13:7)

(Russia--Economic policy)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9

KOLOSOV, A.G., kapitan

Son of the people. Vest. Vozd. Fl. no.4:71-72 Ap '61.
(MIRA 14:7)
(Gagarin, Iurii Alekseevich, 1934-)

APPROVED FOR RELEASE: 09/18/2001

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KOLOSOV, Aleksandr Gerasimovich; TITOV, Konstantin Sergeyevich;
FREYMAN, Tamara Iosifovna; MIROSHCHENKO, S., otv. red.

[Turnover tax on food products] Nalog s oborota po pro-
dovol'stvennym tovaram. Moskva, Finansy, 1965. 213 p.
(MIRA 18:5)

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KULOSOV, A. I.

"Investigation of Rational Methods for Manufacturing Diapositives and Negatives for Offset Printing." Thesis for degree of Cand. Technical Sci. Sub 30 Jun 50, Moscow Polygraphic Inst.

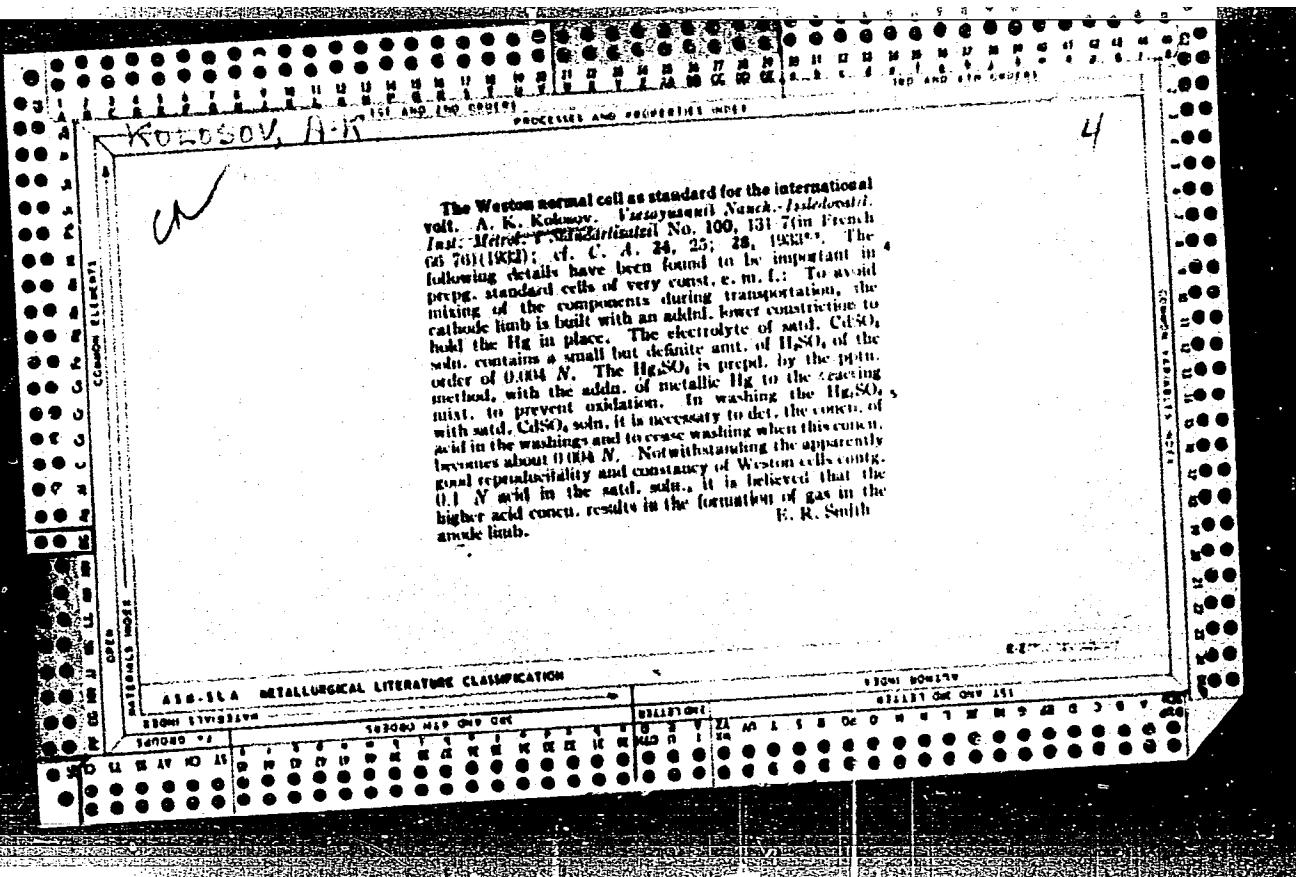
Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9"

KOLOSOV, Aleksandr Ivanovich; LAVRENT'YEVA, Anna Georgiyevna;
SINYAKOV, N.I., red.; STRELKOVA, A.N., red.;
PANKRATOVA, M.A., tekhn. red.

[Technology of printing in two books] Tekhnologija po-
litigraficheskogo proizvodstva v dvukh knigakh. Moskva, Is-
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pechatnykh form. 1963. 487 p. (MIRA 17:2)



SHRAMKOV, Ye.G.; GORBATSEVICH, S.V.; KOLOSOV, A.K.; DROTKOV, I.N.; ROZHDESTVENSKAYA,
T.B.; SHIROKOV, K.P.; CHERNYSHEV, Ye.T.; YANOVSKIY, B.M.

Metrological activities in the field of electric and magnetic measure-
ments. Trudy VNIIM no.33:60-93 '58. (MIRA 11:11)

1. Rukovoditel' otdela elektricheskikh i magnitnykh izmereniy
Vsesoyuznogo nauchno-issledovatel'skogo instituta metrologii imeni
D.I. Mendeleyeva (for Shramkov).
(Electric measurements) (Magnetic measurements)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9

ARUTYUNOV, V.O.; GORBATSEVICH, S.V.; SHRAMKOV, Ye.G.; BURDUM, G.D.;
KOLOSOV, A.K.

M.P. Malikov; obituary. Izm.tekh. no.4:61 Ap '60.
(MIRA 13:8)
(Malikov, Mikhail Fedoseevich, 1882-1960)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9"

S/115/60/000/008/013/013
B019/B063

AUTHORS: Arutyunov, V. O., Kolosov, A. K., Chernyshev, Ye. T.,
Shramkov, Ye. G., Yanovskiy, B. M.

TITLE: A. N. Boyko (Deceased)

PERIODICAL: Izmeritel'naya tekhnika, 1960, No. 8, p. 63

TEXT: Aleksey Nikitich Boyko, Senior Collaborator of the Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D. I. Mendeleyeva (All-Union Scientific Research Institute of Metrology imeni D. I. Mendeleyev) died on May 20, 1960. The son of a farmer he was born in 1885, and he completed his studies at Peterburg Politekhnicheskiy institut (Peterburg Polytechnic Institute) in 1914. He worked at the Fiziko-tekhnikheskiy institut (Institute of Physics and Technology), from 1918 onward at the Glavnaya palata mer i vesov (Main Bureau of Weights and Measures), and finally at the All-Union Scientific Research Institute of Metrology. During the years of development of the Soviet instrument-building industry he was in charge of the production and control of permanent magnets at the factories imeni Koznitskiy, Krasnaya Zarya,

Card 1/2

KOLOSOV, A.K.; CHALOVA, Ye.A.

International comparisons of the national standards of the volt
for the period 1939-1959. Trudy inst. Kom. stand., mer i izm.
prib. no.52:5-14 '61. (MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii
im. D.I. Mendeleyeva.

(Electric standards)

KOLOSOV, A.K.; SVETLAKOVA, L.F.; CHALOVA, Ye.A.

Study of nonsaturated standard components at increased and decreased temperatures. Trudy inst. Kom. stand. mer i izm. prib. no.67:12-27 '62. (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni Mendeleyeva.

GLAGOLEVA, Ye.P.; GRADSKAYA, N.N.; KOLOSOV, A.K.; MYULLER, V.V.; SAVUSHKINA, A.S.; CHALOVA, Ye.A.

New small-size e.m.f. meters. Nov.nauch.-issl.rab.po matr. VNIIM
no.414-6 '64. (MIRA 18:3)

KOLOSOV, A.M.; BAKHMET, N.N.; NAUMOV, S.P., red.; GINZBURG, G.M., tekhn. red.

[Biology of the common European hare (*Lepus europaeus* Pall.)]
Biologiya zaitsa-rusaka. Moskva, Izd-vo Mosk. ob-va ispytatelei
prirody, 1947. 100 p. (Materialy k poznaniyu fauny i flory SSSR,
Otdel zoologicheskii, no.9). (MIRA 11:4)
(Stavropol Upland—Hares)

LAVROV, Nikolay Petrovich; NAUMOV, Sergey Pavlovich; KOLOSOV, A.M.,
prof., red.; BILENKO, L.S., red.izd-va; FOMICHEV, P.M.,
tekhn.red.

[Biology of game animals and birds in the U.S.S.R.] Biologiya
promyslovykh zverei i ptits SSSR. Pod obshchei red. A.M.Kolosova.
Moskva, Izd-vo TSentrosoiuz, 1960. 236 p. (MIRA 14:2)
(Game and game birds)

KOLOSOV, A.M.; LAVROV, N.P.; MADMOV, S.P.; DUKAL'SKAYA, N.M., red.;
ROZANOVA, G.K., red. iad-va; MURASHOVA, V.A., tekhn. red.

[Biology of commercial animals in the U.S.S.R.] Biologija vro-
myslovych zverei SSSR. Moscow, Gos. iad-vo "Vysshiaia shkola,"
1961. 379 p.
(Game and game birds)

YAKOVLEV, Konstantin Konstantinovich; LAZAROVICH, Gutman Solomonovich;
KOLOSOV, A.M., retsentent; USHAKOVA, G.V., retsentent; KORBUT,
L.V., red.; SOKOLOVA, I.A., tekhn. red.

[Analyzing the economic activities of meat and dairy industry
enterprises] Analiz khoziaistvennoi deiatel'nosti predpriatii
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1963. 173 p. (MIRA 16:10)

(Meat industry) (Dairy industry)

KOLOSOV, Aleksey Mikhaylovich, prof.; LAVROV, Nikolay Petrovich,
prof.; NAUMOV, Sergey Pavlovich, prof.; PETROVSKAYA, L.P.,
red.

[Biology of commercial animals of the U.S.S.R.] Biologija
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Moskva, Vysshiaia shkola, 1965. 508 p. (MIRA 18:6)

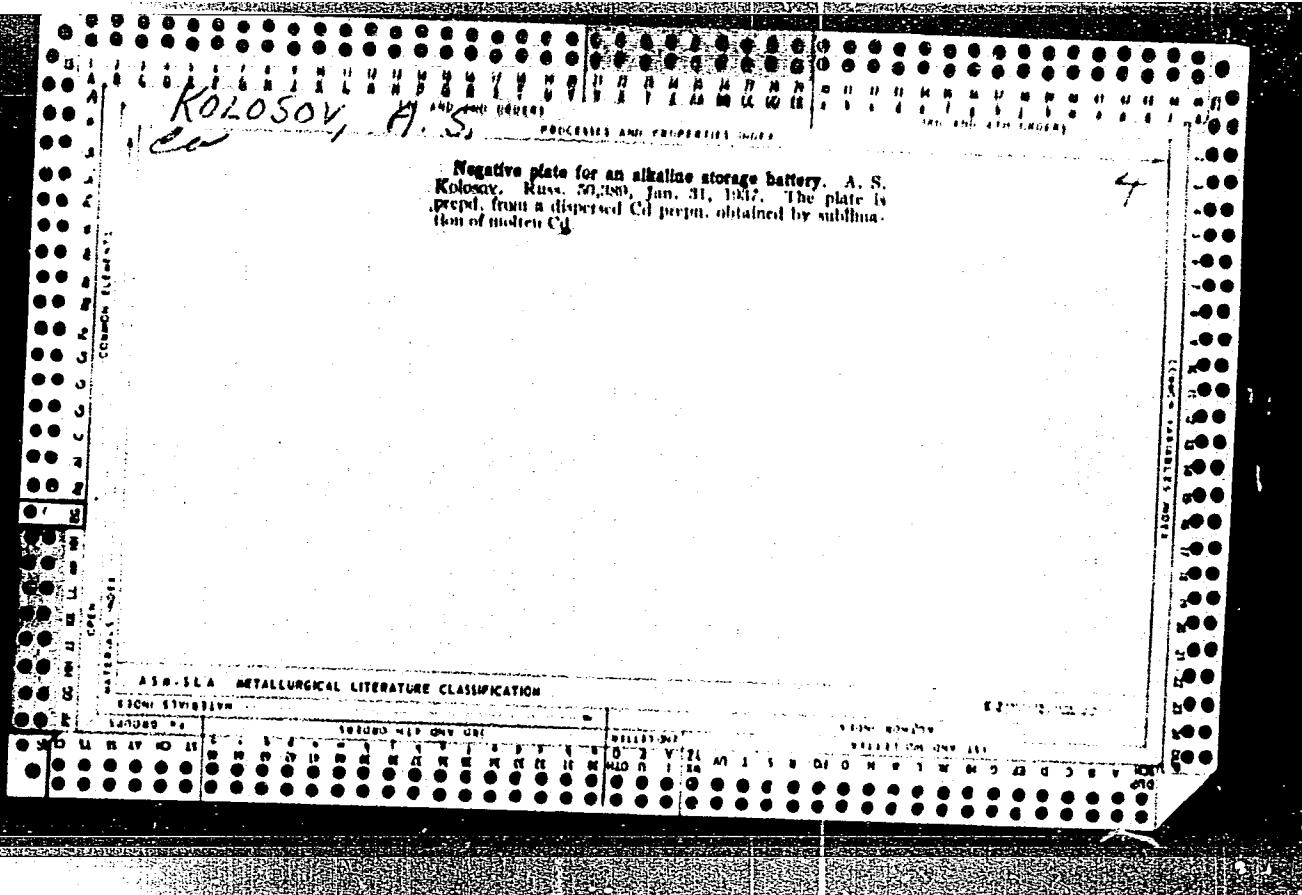
PONOMAREV, B.V., red.; KOLOSOV, A.P., red.; MAMONTOVA, N.N., tekhn.
red.

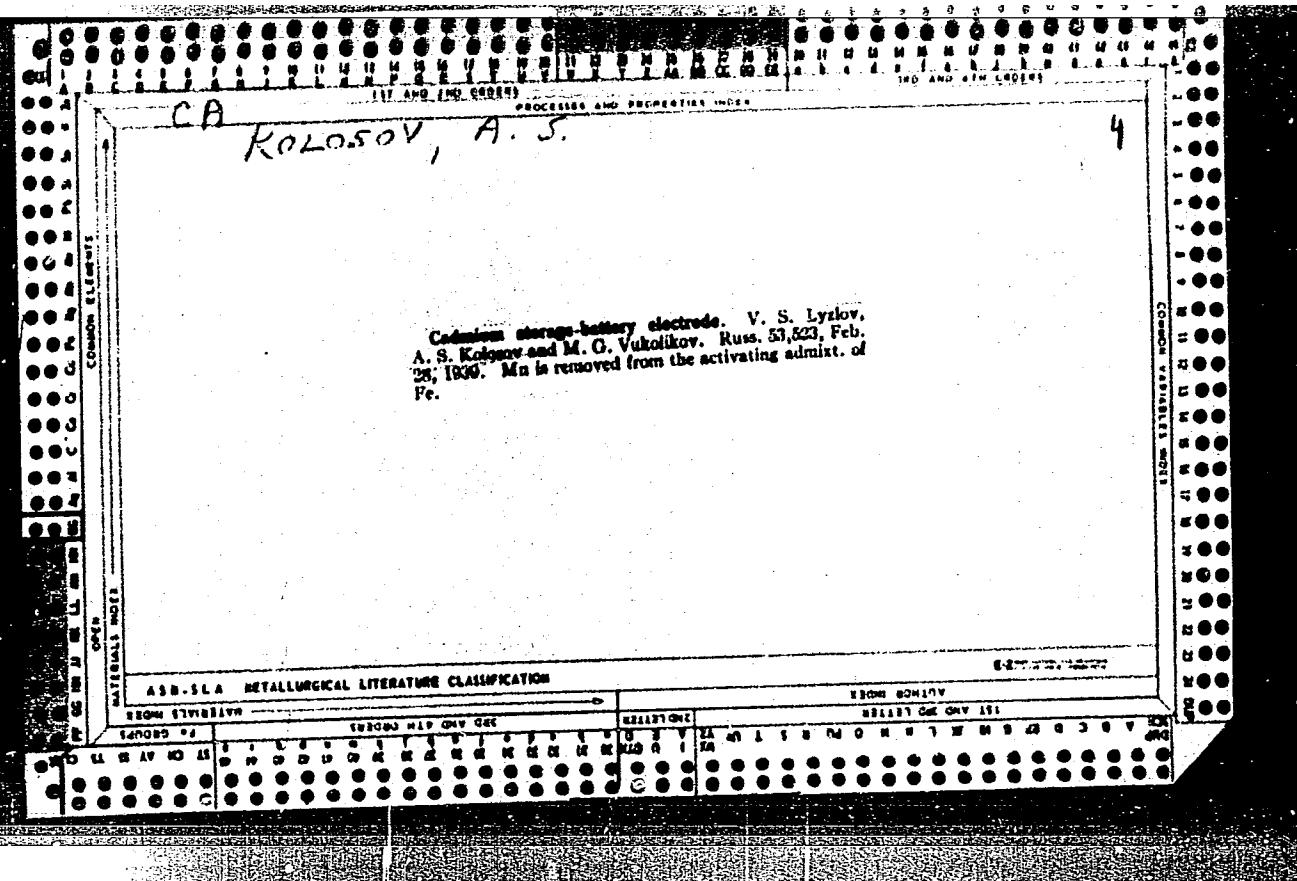
[Mechanization of accounting and calculating work in commerce; collected articles on exchange of practice] Mekhanizatsiya ucheta i vychislitel'nykh rabot v torgovle; sbornik statei po obmenu opyтом. Moskva, Gostorgizdat, 1962. 78 p.
(MIRA 15:9)

(Russia—Commerce) (Machine accounting)

STATSENKO, G.P.; KOLOSOV, A.P., red.; MAMONTOVA, N.N., tekhn. red.

[Collected norms for sanitary work clothes for trade workers] Sbornik norm sanspetsodezhdy dlja rabotnikov torgovli. Moskva, Gostorgizdat. 1962. 159 p. (MIRA 16:5) (Clothing, Protective)





KOLOSOV, A. S.

H. A.

7.

Polarization Curves of Cadmium-Iron Electrodes Having an Active Iron Component. A. S. Kolosov (Zhur. Fiz. Khim., 1949, 23, 1239-1246; C. Abs., 1950, 44, 1829).--(In Russian). The equilibrium potential Cd/Cd⁺⁺ and the stationary potential of iron, both in 4N-KOH at 25°C. and referred to the Hg/HgO electrode, are -0.91 and -0.98 V., respectively. The oxidized cadmium electrode in 4N-KOH is reduced in contact with iron; therefore, the reaction $Cd^{++} + Fe = Cd + Fe^{++}$ must be considered in cadmium-iron electrodes. Anodic polarization curves of cadmium-iron electrodes in 4N-KOH at small c.d. show plateaux corresponding to the ionisation of iron, ionization of cadmium, oxidation of Fe⁺⁺ to Fe⁺⁺⁺, and evolution of oxygen, whereas at high c.d. iron and cadmium are ionized simultaneously. Cathodic-polarization curves at any c.d. show plateaux corresponding to the discharge of cadmium, discharge of iron, and liberation of hydrogen. The length of the plateau shows the extent of participation of the corresponding metal in the electrode process; for iron it is little dependent on the ratio cadmium:iron when this varies from 0 to 6. The cadmium-iron electrode seems to be a mechanical mixture of cadmium and iron or their oxides.

FORTUNATOV, A.V.; KOLOSOV, A.S.; EROGIUS, Ye.A.; ELYUKINA, N.G.;
L'VOV, A.L.

In memory of N.V. Shishkin. Zhur. ob. khim. 26 no. 3:937-938 Mr '56.
(MLBA 9:8)

(Shishkin, Nikolai Vasil'evich, 1891-1954)
(Bibliography--Chemistry)

KOLOSOV, A.S.

Isotherm of the system $MgSO_4 - CaSO_4 - H_2O$ at $25^\circ C$. Trudy Khim.-met.
inst.Zap.-Sib.fil.AN SSSR no.12:29-38 '58. (MIRA 14:6)
(Magnesium sulfate) (Calcium sulfate)

KOLOSOV, A.S.

System Na, Mg, Ca // SO_4 -- H_2O at 25°C . Izv. Sib. otd. AN SSSR
no.3:67-75 '59. (MIRA 12:8)

1.Zapadno-Sibirskiy filial Akademii nauk SSSR.
(Solutions (Chemistry))

LEPESHKOV, I.N.; SCLOV'YEV, V.K.; MINKO, G.M.; KOLOSOV, A.S.;
VASILEVSKAYA, A.G.

Calcium content of natural salts of Krasnoyarsk Territory.
Izv. Sib. otd. AN SSSR no. 10:36-46 '60. (MIR 13:12)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.
Kurnakova i Khimiko-metallurgicheskiy institut Sibirekogo
otdeleniya AN SSSR.
(Krasnoyarsk Territory--Calcium salts)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9

AVDEYEVA, T.I.; KOLOSOV, A.S.; LILEYEV, I.S.

Optima conditions for the leaching of sulfate limestone sinters. Trudy
Khim.-met.inst.Sib.otd.AN SSSR no.14:61-73 '60. (MIRA 14:6)
(Leaching) (Alumina)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9"

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9

KOLOSOV, A.S.

Work of the salts commission. Izv.Sib.ctd.AN SSSR no.6:132-133
'61. (MIRA 14:6)
(Siberia—Salts)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920017-9"

KOLOSOV, A.S.

The system CaSO_4 - Na_2SO_4 - NaCl - H_2O at 25 C. Izv.Sib.otd.AN
SSSR no.12:64-71 '61. (MIRA 15:3)

1. Khimiko-metallurgicheskiy institut Sibirskogo otdeleniya AN
SSSR, Novosibirsk.
(Systems (Chemistry))

NIKOLAYEV, A.V.; VASIKEVASKAYA, A.G.; KOLOSOV, A.S.; NIKOL'SKAYA, Yu.P.; MINKO, G.M.

Potassium of the upper horizons of salt deposits of the Kansk-Taseyev region. Dokl. AN SSSR. 144 no.6:1369-1372 Je '62.

(MIRA 15:6)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR.
2. Chlen-korrespondent Akademii nauk SSSR (for Kikolayev).
(Krasnoyarsk Territory—Potassium salts)

KOLOSOV, A. S.

Dissertation defended for the degree of Candidate of Chemical Sciences
at the Joint Academic Council on Chemical Sciences; Siberian Branch

"Equilibria in the Systems of Sodium Sulfate-Magnesium Sulfate-Calcium
Sulfate-Water, and Calcium Sulfate-Sodium Sulfate-Sodium Chloride-Water at 25°
C. and Problems of Forming Thenardite and Glauberite."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

NIKOL'SKAYA, Yu.P., KOLOSOV, A.S.

Indications of potassium potential in the south of the Siberian Platform. Geol. i geofiz. no.13/3-61 '65. (MIRA 18:6)

I. Khimiko-metallurgicheskiy institut Sibirskego otdeleniya AN SSSR, Novosibirsk.

KOLOSOV, ALEKSANDR VASIL'YEVICH

OKHRIMENKO, Veniamin Antonovich, inzhener; KOLOSOV, Aleksandr Vasili'yevich,
inzhener; POMORTSEV, A.D., otvetstvennyy redaktor; SLAVOROSOV, A.N.,
redaktor izdatel'stva; KROVENKOVA, Z.A., tekhnicheskiy redaktor

[New shields for working steep and flat seams] Novye shchitovye
perekrytiia pri razrabotke krutykh i nаклонnykh plastov. Moskva,
Ugletekhnizdat, 1957. 167 p.
(MLR 10:9)
(Coal mines and mining)

OKHRIMENKO, V.A., aspirant; KOLOSOV, A.V., aspirant

Mining medium thickness, steeply pitching seams in Kuznetsk
Basin with the use of KVKP shields. Nauch. trudy MGI no.18:²⁷-58
'57. (MIRA 11:9)
(Kuznetek Basin--Coal mines and mining)

KOLOSOV, A.V.

Use of rocks discharged from mines as raw material for mine
filling. Trudy Inst.gor.dela.Sib.otd.AN SSSR no.1:54-62 '58.
(MIRA 12:11)

(Mine filling)

KOLOSOV, A.V.

Efficient organization of rock dumping by mines of the Prokop'evsk-Kiselevsk region of Kuznetsk Basin. Ugol' ?3 no.4:31-34 Ap '58.
(Kuznetsk Basin--Coal mines and mining) (MIRA 11:4)
(Waste, Disposal of)

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AUTHORS: Sazonov, A.I. and Kolosov, A.V.

TITLE: Calculation of the Angle of Radio Refraction at Small
Elevation AnglesPERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika,
1960, No.3, pp.409-412TEXT: The refraction error at small elevation angles can be
determined as (Ref.6)

$$\alpha \approx \frac{1}{2} \Delta \quad (1)$$

where Δ is the angle of full refraction which is equal to the difference between the incidence angle φ_2 at the point of observation and the incidence angle φ_1 at the point where the object is situated. Consequently, for determining the refraction error it is necessary to know the change of the angular coefficient of the normal to the phase front during the propagation of radio waves in a non-homogeneous medium or the trajectory of a ray. The equation for the trajectory is in the form (Ref.5)

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X

Calculation of the Angle of Radio Refraction at Small Elevation Angles

$$x = \int_0^y \frac{du}{\sqrt{u + p^2 + ug(u)}} \quad (2)$$

Eq. 8.3
(p)

where x and y are the distance and the height in normalized units and

$$g(u) = \frac{h_1 a^*}{2 \epsilon_0} \left[\frac{z - z_0}{h} - \left(\frac{dt}{dh} \right)_0 \right],$$

where ϵ is the permittivity of the troposphere and a^* is the equivalent radius of the earth. On the other hand, the parameter p is defined by

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Calculation of the Angle of Radio Refraction at Small Elevation Angles

$$p = \sqrt[3]{\frac{ka^*}{2} \cos \gamma}$$

Eq.
(B)

where γ is the zenith angle. By solving Eq.(2) for $y = y_1$ and $y = 0$, it is possible to determine $\tan \varphi_1$ and $\tan \varphi_2$. The difference of the tangents of φ_1 and φ_2 is then determined and the final formula for α is

Eq.
(5)

$$\alpha \approx \frac{\nu}{2} - \frac{y_1 + y_1 g(y_1)}{2d^2(2\xi + \nu)}, \quad (5)$$

где

Eq.
(c)

$$d = \sqrt{\frac{ka^*}{2}}$$

(C)

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Calculation of the Angle of Radio Refraction at Small Elevation Angles

and ν is the central angle. Eq.(5) was checked experimentally at the wavelength of 3.2 cm. The experimental results together with the calculated values are indicated in 2 tables. By comparing the results, it is found that in the case of increased "normal" and negative refraction the calculated results are in good agreement with the experimental data. In the case of super-refraction, there is a considerable discrepancy between the experiment and the calculated values. There are 2 tables and 8 Soviet references.

ASSOCIATION: Ionosfernaya laboratoriya Sibirskogo fiziko-tekhnicheskogo instituta (Ionospheric Laboratory of the Siberian Physicotechnical Institute)

SUBMITTED: July 2, 1959

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